

In re application of  
Wahl and O'Gorman  
Application No.: 10/086,542

Atty. Dkt. No. SALK1790-6 (088802-3457)

Amendments to the Claims/ Listing of Claims

Please amend claims 1 and 9 as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A transgenic, non-human mammal, wherein said mammal contains at least one FLP recombination target site in the genomic DNA thereof, wherein said FLP recombination target site comprises ~~at least two~~ the 13 base-pair segments having the sequence:

~~5'~~ ~~GAAGTTCTTATTC~~ ~~3'~~, or

~~5'~~ ~~GTATAGGAACCTTC~~ ~~3'~~,

~~wherein said 13 base-pair segments are repeats of SEQ ID NO:3,~~ separated by an 8 base-pair spacer.

2. (Previously presented) A transgenic, non-human mammal according to claim 1, wherein said FLP recombination target site is positioned within at least a portion of a first gene of interest.

3. (Previously presented) A transgenic, non-human mammal according to claim 1, further comprising a nucleotide sequence encoding, and capable of being expressed, in transgenic, non-human mammals, an FLP recombinase.

4. (Previously presented) A transgenic, non-human mammal according to claim 1, further comprising FLP recombinase.

5. (Previously presented) A transgenic, non-human mammal according to claim 1, wherein said mammal is a mouse.

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6. (Previously presented) A transgenic, non-human mammal according to claim 1, wherein said mammal is a rat.

7. (Previously presented) A transgenic, non-human mammal according to claim 1, wherein said mammal is a monkey.

8. (Previously presented) A transgenic, non-human mammal according to claim 1, wherein said mammal is a hamster.

9. (Currently amended) A transgenic, non-human mammal according to claim 2, wherein said first gene[(s)] of interest provides a readily analyzable marker feature to the host system.

10. (Previously presented) A transgenic, non-human mammal according to claim 9, wherein said marker is selected from the group consisting of  $\beta$ -galactosidase, thymidine kinase, tyrosinase, and antibiotic resistance.

11. (Cancelled)

12. (Previously presented) A transgenic, non-human mammal according to claim 2, further comprising an additional DNA fragment, wherein said additional DNA fragment is selected from:

- (a) at least a second portion of said first gene of interest, or
- (b) at least a portion of a second gene of interest;

wherein said additional DNA fragment contains at least one FLP recombination target site; and wherein said additional DNA fragment, when combined in reading frame with said at least a portion of said first gene of interest, provides a functional gene.

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13. (Previously presented) A transgenic, non-human mammal according to claim 2, further comprising an additional DNA fragment, wherein said additional DNA fragment is selected from:

- (a) at least a second portion of said first gene of interest, or
- (b) at least a portion of a second gene of interest;

wherein said additional DNA fragment contains at least one FLP recombination target site; and wherein site-specific recombination disrupts the function of said first gene of interest.

14. (Previously presented) A transgenic, non-human mammal according to claim 13, wherein said function is colorimetrically detectable, immunologically detectable or genetically detectable.

15. (Previously presented) A transgenic, non-human mammal according to claim 3, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

16. (Previously presented) A transgenic, non-human mammal according to claim 4, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

17. (Previously presented) A transgenic, non-human mammal according to claim 9, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

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18. (Previously presented) A transgenic, non-human mammal according to claim 12, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.

19. (Previously presented) A transgenic, non-human mammal according to claim 13, wherein said mammal is selected from the group consisting of a mouse, a rat, a monkey and a hamster.